

## ABSTRACT

An MSA feeder circuit (113) that feeds power to an MSA (112) and MSA (112) is disposed on an antenna substrate (106) and a high-output amplifier (102) and low-noise amplifier (103), etc., which are active devices, are mounted on an RF substrate (107). A heat radiation block (111) is interposed between the antenna substrate (106) and the RF substrate (107). An RF-antenna connection section (105) connects an MSA feeder circuit (113) disposed on the antenna substrate (106) and a feed line (109) on the RF substrate (107) through an electromagnetic field using a non-radiation connection slot (108). In this way, even when a device with high output and large power consumption is used, it is possible to provide an active antenna which can suppress deterioration of the characteristic and which can be implemented in a simple configuration and can be downsized.